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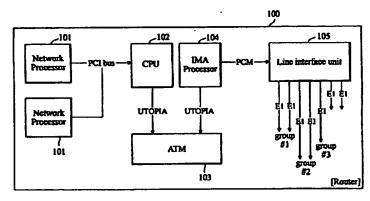
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(54) Title: ROUTER FOR SUPPORTING IMA FUNCTION IN A MOBILE COMMUNICATION NETWORK



Abstract: The present invention relates to a router supporting an Inverse Multiplexing over ATM (IMA) function in a mobile communication network. The router in accordance with the present invention comprises a CPU for converting a plurality of Ethernet packets inputted from network processors connected to subscribers into ATM cells and outputting the converted ATM cells, and for converting a plurality of ATM cells inputted from the CPU into Ethernet packets and disturbing the converted Ethernet packets to the network processors; an ATM multiplexer/demultiplexer connected to the CPU for multiplexing or demultiplexing the ATM cells; an IMA processor connected to the ATM multiplexer/demultiplexer for converting the ATM cells inputted from the ATM mulcells; an IMA processor connected to the ALM multiplexer demultiplexer and grouping the PCM packets, and for converting the grouped tiplexer/demultiplexer into Pulse Code Modulation (PCM) packets and grouping the PCM packets, and for converting the grouped C PCM packets into ATM cells and outputting the converted ATM cells to the ATM multiplexer/demultiplexer, and a line interface unit for transmitting the grouped PCM packets to a general network via a line (e.g., El or T1) and outputting grouped PCM packets inputted from the general network to the IMA processor. Because the router of the present invention incorporates the CSU/DSU and IMA functions therein, data services can be provided in a bandwidth broader than the B1/T1 bandwidth.